

Differences between RT130 and RT130S Dataloggers

2014/04/23: Lynn Dietz

Model Name	Serial Number Range	Board Number via RTCC		Visual Identifiers		Nominal Bit-Weight (uV/count)	Real-World Bit-Weight (uV/count)
		LID	ATD	Connector Rings	Case Color		
RT130-ANSS RT130-SMHR RT130-01	9xxx - Axxx	520	505	all silver	aluminum or black	1.5895	
RT130-01	B000 - B499?	520	649	all silver	black	1.5895	1.608 (on avg)
RT130S-01	B500? and higher	680	649	color-coded	black	2.725	2.752 to 2.764

Notes:

a. Serial Number ranges are approximate, based on Lynn Dietz poking around all NCSN-deployed Reftek stations which have serial numbers ranging from 9055 to BC18. The true RT130 vs RT130S identification is made by the LID/ATD board number combination. Antonio Sanchez of Reftek commented that all units B500 and up *should* be RT130S units.

b. As of 2014/04/23: on the upper-right corner of the lid, both RT130-01 and RT130S-01 are labeled as plain old "RT130". One must use other features (especially the LID/ATD board#s) to distinguish the two model types.

c. comments about nominal vs real-world bit-weights come from Ian Billings on 2014/04/18. He also mentioned, "If you want to use the exact value of bit weight in a unit's response, first retrieve it from the EH of each unit's data file."

d. The nominal and real-world bit weights are only about 1% different, so I'm going to stick with using the nominal bit-weight in the official metadata for our Reftek stations.